

One Year Post Exclusivity Adverse Event Review: Ofloxacin Ophthalmic

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Background Drug Information

- **Moiety:** Ocuflor[®] (ofloxacin)
- **Therapeutic Category:** ophthalmic anti-infective
- **Sponsor:** Allergan
- **Adult and Pediatric Indications:** treatment of conjunctivitis and corneal ulcers for susceptible bacteria in patients > 1 year
- **Dosage:** 1-2 drops at frequent intervals depending on condition
- **Original Market Approval:** July 30, 1993
- **Pediatric Exclusivity Granted:** March 12, 2003

Drug Use Trends in Outpatient Settings: Ofloxacin

- Comprises 12 % of total 11.6 million prescriptions for medium and broad spectrum ophthalmics during exclusivity period (decreased from 20 % prior two years)¹
- While total dispensed prescriptions have decreased from 2.2 million to 1.4 million during April 2003- March 2004¹, pediatric usage has remained steady.²
- Pediatric patients (ages 1-16) accounted for approximately one third of total U.S. prescriptions of Ocuflox® between April 2003 – March 2004 (460,752).^{1,2*}

¹IMS Health, National Prescription Audit *Plus?* , On-Line, Apr 2001 – Mar 2004, Data Extracted May 2004

²AdvancePCS? Dimension Rx, On-Line, Apr 2002 – Mar 2004, Data Extracted May 2004

*Calculation based on application of proportions of pediatric ofloxacin prescriptions in AdvancePCS? to IMS Health, National Prescription Audit *Plus?* to estimate number of ofloxacin prescriptions dispensed nationwide to pediatric population

Drug Use Trends in Outpatient Settings: Ofloxacin

- Prescribers: Ophthalmologists (39 %) and Pediatricians (26 %)¹
- Pediatric Diagnosis: Conjunctivitis (77 % drug mentions)²

¹IMS Health, National Prescription Audit *Plus?* , On-Line , Apr 2001- Mar 2004, Data Extracted May 2004

²IMS Health, National Disease and Therapeutic Index? , CD-Rom, Apr 2001 - Mar 2004, Data Extracted May 2004

<http://www.fda.gov/cder/pediatric/Summaryreview.htm>

Summaries of Medical and Clinical Pharmacology Reviews of Pediatric Studies - Microsoft Internet Explorer

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Summaries of Medical and Clinical Pharmacology Reviews of Pediatric Studies as of July 8, 2004

Summaries of Medical and Clinical Pharmacology Reviews

Ofloxacin - Ocuflax	Allergan	Medical	Clinical Pharmacology
Orlistat - Xenical	Hoffmann-La Roche	Medical	Clinical Pharmacology
Oseltamivir - Tamiflu New!!	Roche	Medical	Clinical Pharmacology

Pediatric Exclusivity Studies: Ofloxacin

- One week, multicenter, randomized, double blind, parallel group trial comparing ofloxacin 0.3 % to trimethoprim sulfate/polymyxin b in neonates.
 - Cure rate= 60 % (vehicle 70 %)
 - Safety comparable to prior studies
 - Unable to determine from data submitted why clinical cure rate was low
- No label change resulted

Relevant Safety Labeling

- Pregnancy Category C
- Pediatric Use: Arthropathy in immature animals from oral (not topical) quinolones
- Warning: Hypersensitivity/anaphylaxis
- Adverse Reactions:
 - Transient ocular burning or discomfort
 - Other local symptoms (stinging, redness itching, chemical conjunctivitis/keratitis, edema, tearing, dryness and eye pain)
 - Visual changes- photophobia, blurred vision
 - Rare dizziness and nausea

Adverse Event Reports Since Market Approval: Ofloxacin July 1993 – April 2004

- Total number of reports, all ages:
 - 66 reports (50 US)
 - 18 serious (7 US)
 - 4 deaths (0 US)
- Pediatric reports:
 - 3 reports (2 US)
 - 1 serious (0 US)
 - 0 deaths

Raw counts (US reports are in parenthesis)- includes duplicates

Adverse Events during the One-Year Post-Exclusivity Period: Ofloxacin March 2003 – April 2004

- Adult (2)
 - Deafness neurosensory (1)
 - Hearing loss (1)
- Pediatric (1)
 - Corneal deposits (1)
- All events are unlabeled

Pediatric Adverse Event (n=1)

6 year old male

- Treatment for vernal conjunctivitis with topical ofloxacin ointment and drops TID for 3 weeks, along with prednisolone
- Developed dense, white, sharply demarcated corneal deposits treated with corneal scraping

Summary

- With one event, no meaningful conclusion can be drawn.
- This completes the one-year post-exclusivity adverse event monitoring as mandated by BPCA.
- FDA will continue its routine monitoring of adverse events for this drug.